

Serial No. 10/015,369
Page 2 of 11

IN THE CLAIMS

1. (currently amended) A parallel operation system of transmission amplifiers, comprising:

first and second transmission amplifier units which receive a common input signal ~~for outputting signal and output respective amplified signals from respective ones~~; and

a coupling unit which combines outputs of the first and second transmission ~~amplifiers~~ units, to provide as its output;

the first and second transmission amplifier units each including:

a main amplifier; and

a modulation unit disposed on the input side of the main amplifier; wherein

the output of either one of the modulation units included in the first and second transmission amplifier units is fed ~~in common~~ to the main amplifiers included in the first and second transmission amplifier units.

2. (currently amended) The parallel operation system of transmission amplifiers according to claim 1, further comprising a switch interposed between the main amplifier and the modulation unit included in each of the first and second transmission amplifier units; the switch being changed over to feed, ~~in common~~, the output of either one of the modulation units included in the first and second transmission amplifiers, commonly to the main amplifiers included in the first and second transmission amplifier units.

84195542_1.DOC

Serial No. 10/015,369

Page 3 of 11

3. (currently amended) A parallel operation system of transmission amplifiers,

comprising:

first and second transmission amplifier units which receive a common input signals for ~~outputting signal and output respective~~ amplified signals ~~from respective ones~~; and

a coupling unit which combines outputs of the first and second transmission amplifier units, to provide as its output;

the first and second transmission amplifier units each including:

a main amplifier;

a digital pre-distorter disposed on the input side of the main amplifier, for creating distortion anticipated values of the main amplifier to add them to the input signals;

a quadrature modulator which quadrature modulates the output of the digital pre-distorter; and

an up-converter having a local oscillator, for converting the output frequencies of the quadrature modulator; wherein

the output of the up-converter included in one of the first and second transmission amplifier units is fed ~~in-commonly~~ to the main amplifiers included in the first and second transmission amplifier units.

4. (currently amended) The parallel operation system of transmission amplifiers according to claim 3, wherein

84195542_1.DOC

Serial No. 10/015,369

Page 4 of 11

the first and second transmission amplifier units each have a down-converter, the output of the coupling unit being fed back via the down-converter to the digital pre-distorters included in the above first and second transmission amplifier units.

5. (currently amended) The parallel operation system of transmission amplifiers according to claim 3, further comprising a switch interposed between the main amplifier and the up-converter included in each of the first and second transmission amplifier units; the switch being changed over to feed, ~~in common~~, the output of either one of the up-converters included in the first and second transmission amplifiers, commonly to the main amplifiers included in the first and second transmission amplifier units.

6. (currently amended) The parallel operation system of transmission amplifiers according to claim 3, wherein

power is supplied to only one of the up-converters included in the first and second transmission amplifier units, the output of the power supplied up-converter being fed in common to the main amplifiers included in the first and second transmission amplifier units.

7. (currently amended) The parallel operation system of transmission amplifiers according to claim 1, further comprising:

an external connector to provide a connection or disconnection between the first transmission amplifier unit, the second transmission amplifier unit, and the coupling unit that

84195542_1.DOC

Serial No. 10/015,369

Page 5 of 11

combines the outputs of the first and second transmission amplifier units, for the output, to thereby effect a switching between the parallel running and the single running.

8. (original) The parallel operation system of a transmission amplifier according to claim 4, further comprising:

an attenuator for adjusting the difference between feedback signal levels to the digital pre-distorter in the parallel and single running.

9. (previously presented) The parallel operation system of a transmission amplifier according to claim 4, further comprising, on the output side of the up-converter, an attenuator for adjusting the difference between feedback signal levels to the digital pre-distorter in the parallel and single running.

10. (currently amended) A parallel operation system of transmission amplifiers, comprising:

first and second systems each having a digital pre-distorter which receives digital signals, having a D/A converter which converts the output of the digital pre-distorter into an analog signal, and having a main amplifier to amplify the outputs of the D/A converter;

a coupling unit which combines the outputs of the main amplifiers of the first and second systems; and

a feedback system including an D/A/D converter which converts the output of the coupling unit into a digital signal, wherein

84195542_1.DOC

Serial No. 10/015,369

Page 6 of 11

the output of the ~~D/A/A/D~~ converter included in the feedback system is fed back to the digital pre-distorters of the first and second systems, and wherein

the digital pre-distorters of the first and second systems create distortion anticipated values of the main amplifiers as a function of the fed back output level of the coupling unit and add them to the inputted digital signals, for output.

11. (original) A parallel operation system of transmission amplifiers, comprising:
first and second systems each having a pre-distorter which receives analog signals, having an up-converter which multiplies the output of the pre-distorter up to a predetermined frequency, and having a main amplifier which amplifies the output of the up-converter;
a coupling unit which combines the outputs of the main amplifiers of the first and second systems; and
a feedback system including a down-converter which reduces the output of the coupling unit into a predetermined frequency, wherein
a common reference signal is fed to both the up-converter and the down-converter, and wherein

the output of the down-converter included in the feedback system is fed back to the pre-distorters of the first and second systems, and wherein

the pre-distorters of the first and second systems create distortion anticipated values of the main amplifiers as a function of the fed back output level of the coupling unit and add them to the inputted analog signals, for output.

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